EPSON® ELPDC03 Motion Presentation Camera

User's Guide

Important Safety Information

WARNING: Never open any cover on the document camera. Dangerous electrical voltages inside the document camera can severely injure you. Except as specifically explained in this *User's Guide*, do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

WARNING: The document camera and its accessories come packaged in plastic bags. Keep plastic bags away from small children to avoid any risk of suffocation.

Caution: Never attempt to replace the lamps. Refer all lamp servicing to qualified service personnel.

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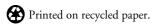
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CPD-12275



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The EPSON® ELPDC03 Motion Presentation Camera is a document camera that can be connected to all types of projectors and display devices. From boardrooms to auditoriums, you can show still images and motion video in your presentations.

The document camera's lamps provide ample lighting for printed material and 3-D objects. The camera can also present true motion, NTSC video.

Your document camera captures images at a resolution of 768×494 pixels with a maximum shooting area of 12.8×9.6 in. $(324 \times 238 \text{ mm})$. With its $16 \times \text{zoom capability}$, even 10 point type can be read clearly. And the document camera's support for S-Video and composite video provides additional versatility.

Using Your Documentation

This book contains all the information you need to set up and use your document camera. Please follow these guidelines as you read through it:

- Warnings must be followed carefully to avoid bodily injury.
- Cautions must be observed to avoid damage to your equipment.
- Notes contain important information about your document camera.

Getting More Information

Need tips on giving presentations? More information about your document camera? Here's where you can look for help:

- http://www.presentersonline.com Includes a library of articles covering presentation tips, tricks, and technology. The site provides templates, clip art, and sound clips, as well as Presenters Services to use on the road. Even more resources and services are available if you register to join the Presenters Club®—and it's free.
- http://support.epson.com
 Download FAQs and e-mail your questions to EPSON support.

If you still need help after checking this *User's Guide* and the sources listed above, you can use the EPSON PrivateLine® Support service to get help fast. Call (800) 637-7661 and enter the PIN on the card included with your document camera. Or take advantage of EPSON's electronic support services 24 hours a day. See page 27 for more information.

Registration

To register, simply fill out and return the enclosed registration card.

Setting Up the Document Camera

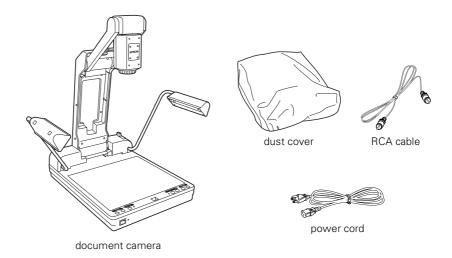
This chapter tells you how to set up the document camera for a video presentation.

You'll find instructions for the following in this chapter:

- Unpacking the document camera
- Unfolding the document camera
- Positioning the document camera
- Connecting to a projector or monitor

Unpacking the Document Camera

After unpacking the document camera, make sure you have all the items shown below:

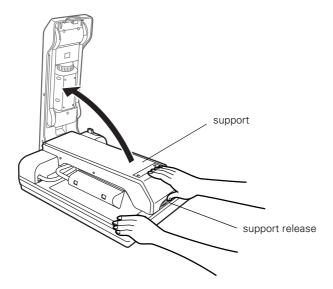


Save all packaging in case you need to ship the document camera. Always use the original packaging (or the equivalent) when you need to send the document camera to another location. For transportation instructions, see page 23.

Unfolding the Document Camera

Follow the steps below to unfold the document camera.

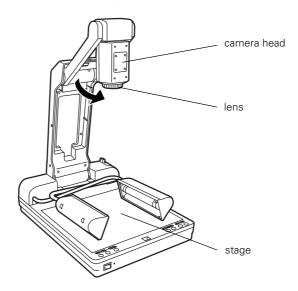
While holding down the document camera, press the support release and lift the support until you hear a click.



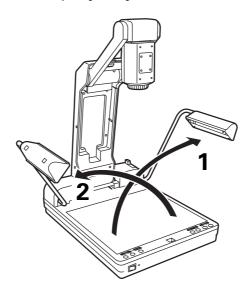
Lift the camera arm until you hear a click.



3. Pull the camera head forward until the lens faces the stage (downward) and you hear a click.



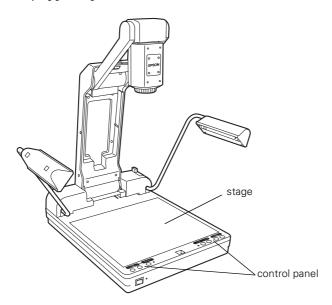
4. Unfold the first lamp arm (1) and then the second (2) as shown until they stop. If a protective sheet covers the stage, remove it.



Positioning the Document Camera

Before connecting the document camera, you need to decide where to place it. Wherever you place it, be sure to follow these guidelines:

- Place the document camera on a sturdy, level surface.
- Make sure there is plenty of space for ventilation around and under the document camera.
- Make sure the document camera is within 10 feet (3 m) of a grounded electrical outlet or extension cord, and within 5 feet (1.5 m) of your output source.
- With the control panel facing you, place the document camera directly in front of you. Otherwise, items you place on the stage may appear upside-down.



Most presenters find it convenient to place the document camera in front of the audience. This lets the presenter stand in the front of the room, face the audience, and remain close enough to the equipment to be able to control it.

caution

Do not hold or lift the document camera by the camera head or lighting unit arms, or you may damage them.

Connecting to a Projector or Monitor

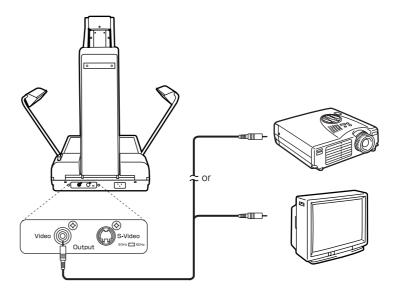
You can connect the document camera to any projector or monitor that has a composite video or S-Video input port. EPSON projectors and many television monitors support both connections. Computer monitors generally don't support either connection.

A standard RCA cable is supplied with your document camera. For a higher quality image, S-Video is supported. However, you'll need an S-Video cable, which may be purchased from an electronics store or video dealer.

Connecting the RCA Cable

Before you start, make sure your document camera and projector or monitor are turned off.

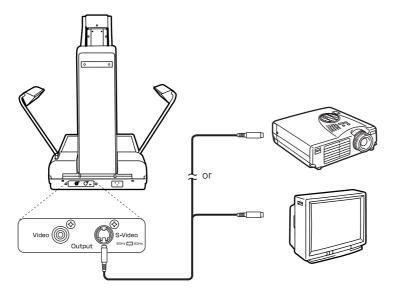
- Connect one end of the RCA cable to the document camera's Video port.
- 2. Connect the other end of the cable to the RCA input port on the projector or monitor.



Connecting the Optional S-Video Cable

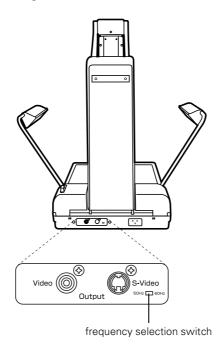
Before you start, make sure your document camera and projector or monitor are turned off.

- 1. Connect one end of the S-Video cable to the document camera's S-Video port.
- 2. Connect the other end of the S-Video cable to the S-Video input port on the projector or monitor.



Adjusting the Frequency

The frequency selection switch is located on the rear of the document camera, next to the S-Video port. It is factory set to 60 Hz. In an area where power frequency is 50 Hz, set the switch to 50Hz to reduce flickering.



Using the Document Camera

Once you have set up the document camera, you're ready to turn it on, adjust the image, and give your presentation. This chapter covers the following:

- Turning on the document camera and other equipment
- Positioning your document on the stage
- Adjusting the lighting
- Adjusting the image
- Using the camera head as a conventional video camera
- Turning off and storing the document camera

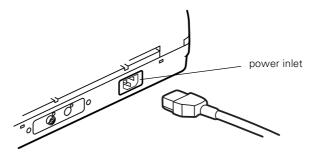
Turning On Your Equipment

Make sure your document camera and other equipment are set up and connected correctly, as described in Chapter 1. Always turn on your projector or monitor first. Then turn on your document camera as described below.

Turning On the Document Camera

Follow these steps to plug in and turn on the document camera:

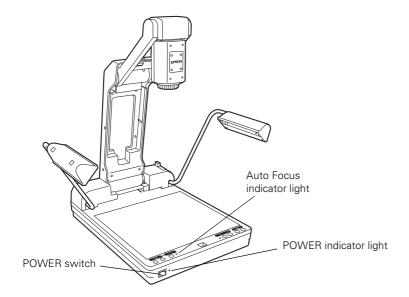
1. Connect one end of the power cord to the document camera's power inlet.



- 2. Connect the other end to a grounded electrical outlet.
- 3. Turn on the projector or monitor.

4. Turn on the document camera.

After a few moments, the POWER and Auto Focus indicator lights and the lamps turn on.



5. Place your presentation material on the stage. You should see an image on screen.

Once you see your image, turn to page 15 for instructions on making adjustments.

If your image doesn't appear, see the next section for help.

When you're done with your presentation, turn off the document camera as described on page 18.

note

If you turn off the document camera, always wait a few seconds before turning it back on.

What To Do If You See a Blank Screen

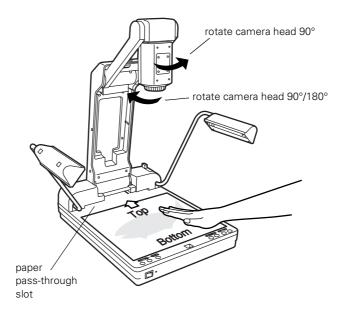
If an image doesn't appear, try the following:

- Make sure the cables are connected correctly, as described on page 8.
- Make sure everything is turned on in the correct order as described on page 12.
- Make sure the POWER and Auto Focus lights on the control panel are green and the lamps are lit.
- If an image still doesn't appear, refer to Chapter 4 for more help.

Positioning Your Document on the Stage

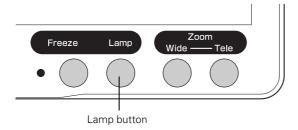
Place your document with the top near the rear of the stage. If you need to change the orientation of the document, rotate the camera head 90° to the right or 90°/180° to the left.

Some documents can pass through the rear of the document camera. Use the paper pass-through slot to position these documents as needed.



Adjusting the Lighting

For presenting printed material or 3-D objects, the two lamps will provide ample light. If the ambient lighting in the room is sufficient, however, you may obtain a better image with the lamps off. Press the Lamp button on the control panel to turn off the lamps. Press it again to turn the lamps back on.



Adjusting the Image

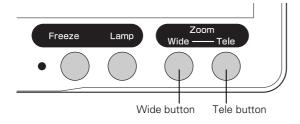
Once you see your image, you may need to make certain adjustments:

- To zoom or focus your image, see the next section.
- To freeze the image on screen, see page 16.

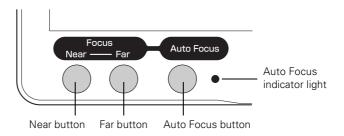
Zooming and Focusing Your Image

When you turn on the document camera, the Auto Focus feature is turned on and the indicator light is lit.

Use the Tele button on the control panel to enlarge the image, and use the Wide button to reduce it. The document camera will automatically focus the image. Once the zoom or focus is set for a flat document, you probably won't have to adjust it again for subsequent documents.



Material with a varying depth of field, little or excessive contrast, or fine repeated patterns may not focus well using the Auto Focus feature. To manually focus these objects, first press the Auto Focus button to turn off automatic focusing. Then use the Near or Far button on the control panel.

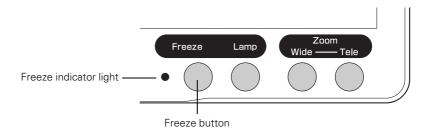


Freezing the Image

If you need to change documents during a presentation, you can freeze your image by pressing the Freeze button. This way, your audience will have an image to view until the next document is ready. Press the Freeze button again to display your next document. You can also use the Freeze feature to capture a single frame of a moving object.

noteYou can

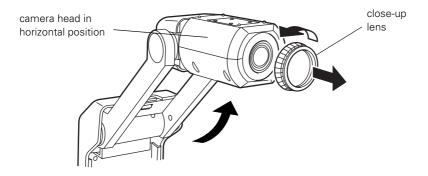
You can't zoom or focus your image while the Freeze feature is on.



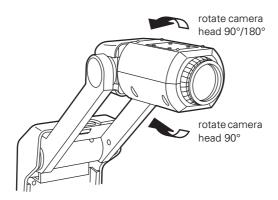
Using the Camera Head as a Conventional Video Camera

By adjusting the camera head to a horizontal position, you can use the document camera like a conventional video camera. And since the camera output is NTSC, you can present true motion video.

To view walls or distant objects, remove the close-up lens by unscrewing it counterclockwise.



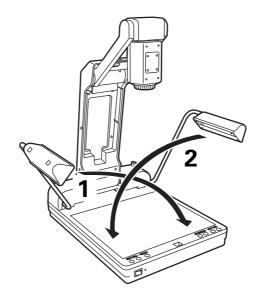
Once the camera head has been placed in a horizontal position, rotate the camera head 180° to the left to present objects right-side up. You can also rotate the camera head 90° to the left or right to change the orientation of the image.



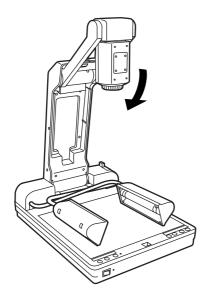
Turning Off and Storing the Document Camera

When you've finished using the document camera, follow these steps to turn off and store it. If you're using a monitor or projector, shut it down last.

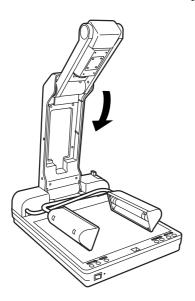
- 1. Turn off the document camera.
- 2. Unplug the power cord and disconnect any attached video cables.
- 3. If necessary, screw on the close-up lens.
- 4. Fold the first lamp arm (1) and then the second (2) as shown.



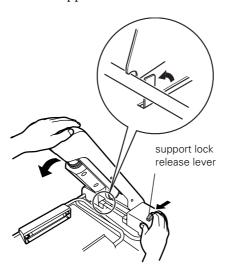
5. Fold the camera head into the camera arm until you hear a click.



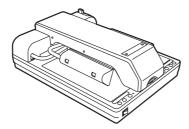
6. Fold the camera arm into the support.



7. Pull the support lock release lever until you hear a click and the lock is released. Then fold the support down until you hear a click and the support release latches to the stage.



8. Store the document camera as shown.



Maintaining and Transporting the Document Camera

warning

Before you clean any part of the document camera, turn it off and unplug the power cord. Never open any cover on the document camera. Dangerous electrical voltages in the document camera can injure you severely. Do not try to service this product yourself. Refer all servicing to qualified service personnel. Your document camera needs little maintenance. All you need to do on a regular basis is keep the lenses and stage clean. Any dirt or smears on the lenses or stage may show up on your presented image.

You should not replace the lamps or any other parts. If any part needs replacing, contact your dealer or a qualified servicer.

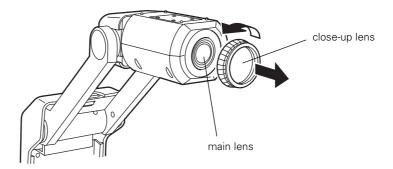
This chapter covers the following:

- Cleaning the lenses
- Cleaning the document camera case
- Transporting the document camera

Cleaning the Lenses

Clean the lenses whenever you notice dirt or dust on the surface.

- Use a canister of compressed air to remove dust.
- To remove dirt or smears on the lenses, use lens-cleaning paper. If necessary, moisten a soft cloth with lens cleaner and gently wipe the lens surface.
- Remove the close-up lens by unscrewing it counterclockwise.
 Then clean the main lens and both sides of the close-up lens.



Cleaning the Document Camera Case

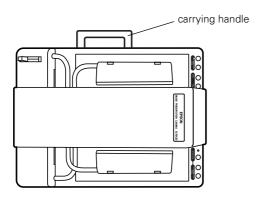
Before you clean the case, first turn off the document camera and unplug the power cord.

- To remove dirt or dust, wipe the case with a soft, dry, lint-free cloth
- To remove stubborn dirt or stains, moisten a soft cloth with water and a neutral detergent. Then wipe the case.
- Do not use wax, alcohol, benzene, thinner, or other chemical detergents. These can damage the case.

Transporting the Document Camera

The document camera contains many glass and precision parts. If you need to transport it, follow these packing guidelines to prevent damage to the document camera:

- Make sure to turn off and fold the document camera as described on page 18.
- When shipping the document camera for repairs, use the original packaging material if possible. If you do not have the original packaging, use equivalent materials, placing plenty of cushioning around the document camera.
- When transporting the document camera a long distance, pack it in a firm box, using cushioning around the document camera.
- When you are hand-carrying the document camera, be sure to use the carrying handle.



note

EPSON shall not be liable for any damages incurred during transportation.

Solving Problems

This chapter helps you solve problems with your document camera, and tells you how to contact technical support for problems you can't solve yourself. This chapter explains the following:

- Solving problems with the image
- Contacting technical support

Solving Problems with the Image

No image appears on the screen.

- Check that all cables are properly connected (see Chapter 1) and everything is turned on.
- Make sure the projector is not in sleep mode. Check the projector documentation.
- The document camera may have been turned on too quickly after it was turned off. Turn the document camera off, wait a few seconds, and then turn it on again.

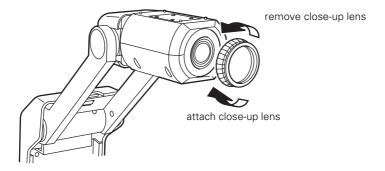
The image contains static or noise.

- If you're using cables that are longer than 6 feet (2 m), or an extension cable, the image quality may be reduced.
- Keep your projector and video cables away from the power cord as much as possible to prevent interference.
- The frequency switch may be set incorrectly. Change the frequency as described on page 10.

The image is blurry.

- There may be dirt on the lenses. Clean the lenses as described on page 22.
- The Auto Focus feature may be turned off. If the Auto Focus indicator light is not lit, press the Auto Focus button.
- Some objects do not auto focus well. Manually focus these objects by first turning off Auto Focus and then using the Near and Far buttons.

The presentation material may be too close to the lens. Attach the close-up lens by screwing it on clockwise.



- The presentation material may be too far from the lens. Remove the close-up lens by unscrewing it counterclockwise.
- Make sure there is no condensation on the lenses. You may need to wait before using the document camera after moving it from a cold environment to a warm environment.

Where to Get Help

EPSON provides technical assistance through electronic support services 24 hours a day, as listed in the following table.

Electronic support services

Service	Access
World Wide Web	From the internet, you can reach EPSON's product support at http://support.epson.com. After selecting your product, you can access troubleshooting information, download product documentation, and receive technical advice through e-mail.
Presenters Online	Access tips, templates, and training for developing successful presentations at http://www.presentersonline.com.

Telephone Support Services

To use the EPSON PrivateLine Support service, call (800) 637-7661 and enter the PIN on the EPSON PrivateLine Support card included with your document camera. This is the fastest way of speaking to a live representative, and it's free. This service is available 6 AM to 6 PM, Pacific Time, Monday through Friday, for the duration of your warranty period.

You may also speak with an EPSON document camera support specialist by dialing one of these numbers:

- U.S.: (562) 276-4394, 6 AM to 6 PM, Pacific Time, Monday through Friday
- Canada: (905) 709-3839, 6 AM to 6 PM, Pacific Time, Monday through Friday

Toll or long distance charges may apply.

Before you call, please have the following information ready:

- Product name (EPSON ELPDC03 Motion Presentation Camera)
- Product serial number (located on the bottom of the document camera)
- Description of the problem

Technical Specifications

General

CCD 1/4 inch pixels, interline transfer

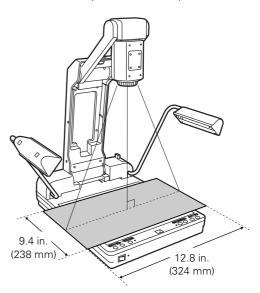
Resolution 768 × 494 pixels

F=1.4 to 3.0, f=4.1 to 65.6 mm Lens

Signal type **NTSC**

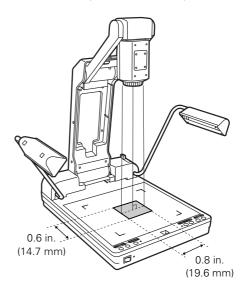
Shooting area,

 12.8×9.4 in. $(324 \times 238 \text{ mm})$ maximum



Shooting area, minimum

0.8×0.6 in. $(19.6 \times 14.7 \text{ mm})$



Zoom 16× optical with double-speed function

Focus Automatic/manual

Iris Automatic
White balance Automatic
Frequency selection 50 or 60 Hz

Lamps 4 W fluorescent × 2

Dimensions

Weight 13.5 lb (6.1 kg)

Folded (h × w × d) $5.9 \times 12.8 \times 16.7$ in.

 $(149 \times 325 \times 424 \text{ mm})$

Unfolded (h × w × d) $23.7 \times 12.8 \times 16.7$ in.

 $(602\times325\times424~\text{mm})$

Electrical

Rated frequency 50/60 Hz

Power supply 100 to 120 VAC

200 to 240 VAC

Power consumption

lights on 100 to 120 VAC: 16 W

200 to 240 VAC: 17.5 W

lights off 100 to 120 VAC: 5.6 W

200 to 240 VAC: 7.5 W

Environmental

Operating: 41 to 104 °F (5 to 40 °C) Temperature

Storage: 14 to 140 °F (-10 to 60 °C)

Humidity Operating: 20 to 80% RH,

non-condensing

Storage: 10 to 90% RH,

non-condensing

Safety

United States FCC 47CFR Part 15B

UL1950

Canada ICES-003

CSA C22.2 No. 950 (cUL)

CE Marking Directive 89/336/EEC

EN55022, EN55024 Directive 73/23/EEC

EN60950



This chapter includes safety instructions and other important information about your EPSON document camera.

Important Safety Instructions

Follow these safety instructions when setting up and using the document camera:

- Do not place the document camera on an unstable cart, stand, or table.
- Do not use the document camera near water or sources of heat.
- Use the type of power source indicated on the document camera. If you are not sure of the power available, consult your dealer or power company.
- Place the document camera near a wall outlet where the plug can be easily unplugged.
 - Placez l'appareil près d'une prise de courant où la fiche peut être débranchée facilement.
- Insert the document camera's three-wire grounding-type plug into a properly grounded outlet. If you have a two-prong outlet, contact an electrician to replace it. Do not hold the plug with wet hands.
- Take the following precautions for the plug. Failure to comply with these precautions could result in sparks or fire: Do not insert the plug into an outlet with dust present. Insert the plug firmly into the outlet.
- Do not overload wall outlets, extension cords, or integral convenience receptacles. This can cause fire or electric shock.

- Do not place the document camera where the cord can be walked on. This may result in fraying or damage to the plug.
- Unplug the document camera from the wall outlet before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
- Do not block the slots and openings in the document camera case. They provide ventilation and prevent the document camera from overheating. Do not operate the document camera on a sofa, rug, or other soft surface, or in a closed-in cabinet unless proper ventilation is provided.
- Never push objects of any kind through the cabinet slots. Never spill liquid of any kind into the document camera.
- Except as specifically explained in this *User's Guide*, do not attempt to service this product yourself. Refer all servicing to qualified personnel. Opening or removing covers may expose you to dangerous voltages and other hazards.
- Unplug the document camera during lightning storms or when it will not be used for extended periods.
- Do not place the document camera and/or remote control on top of heat-producing equipment or in a hot location.
- Unplug the document camera from the wall outlet and refer servicing to qualified service personnel under the following conditions: When the power cord or plug is damaged or frayed. If liquid has been spilled into the document camera, or if it has been exposed to rain or water. If it does not operate normally when you follow the operating instructions, or if it exhibits a distinct change in performance, indicating a need for service. If it has been dropped or the housing has been damaged.
- If you use the document camera in a country other than where you purchased it, use the correct power cord for that country.
- Do not stand on the document camera or place heavy objects
- Do not attempt to remove the lamps. Refer all lamp servicing to qualified service personnel.

- Do not use the document camera outside of the required temperature range (41 to 104 °F [5 to 40 °C]). Doing so may cause an unstable display and could lead to document camera damage.
- Do not store the document camera outside of the required temperature range (14 to 140 °F [-10 to 60 °C]) or in direct sunlight for long periods of time. Doing so may cause damage to the case.

Declaration of Conformity

According to 47CFR, Part 2 and 15

Class B Personal Computers and Peripherals; and/or CPU Boards and Power Supplies used with Class B Personal Computers

We: EPSON AMERICA, INC. Located at: 3840 Kilroy Airport Way

MS: 6-43

Long Beach, CA 90806-2469

(562) 290-5254 Telephone:

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR §2.909. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trade Name: **EPSON**

Type of Product: Document Camera

Model: ELPDC03

FCC Compliance Statement

For United States Users

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

For Canadian Users

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le materiel brouilleur du Canada.

Warranty

Epson America, Inc. Limited Warranty

What is Covered: Epson America, Inc. ("Epson") warrants to the first end user customer of the EPSON product enclosed with this limited warranty statement that the product, if purchased and used in the United States or Canada, conforms to the manufacturer's specifications and will be free from defects in workmanship and materials for a period of one (1) year from the date of original purchase (except that the warranty period is 90 days for lamps). For warranty service, you must provide proof of the date of original purchase.

What Epson Will Do To Correct Problems: Should your EPSON product prove defective during the warranty period, please bring the product securely packaged in its original container or an equivalent, along with proof of the date of original purchase, to your EPSON Dealer or EPSON Customer Care Center. Epson will, at its option, repair or replace on an exchange basis the defective unit, without charge for parts or labor. When warranty service involves the exchange of the product or of a part, the item replaced becomes EPSON property. The exchanged product or part may be new or previously repaired to the EPSON standard of quality. Exchange or replacement products or parts assume the remaining warranty period of the product covered by this limited warranty. However, each replacement lamp carries the limited 90-day warranty stated above.

What This Warranty Does Not Cover: This warranty covers only normal use in the United States and Canada. For lamps, 24-hour-per-day use causes unusual strain and is not considered normal use. This warranty is not transferable and will not apply to products purchased from an end user. This warranty does not cover consumables (e.g., fuses), other than lamps. EPSON is not responsible for warranty service should the EPSON label or logo or the rating label or serial number be removed or should the product fail to be properly maintained or fail to function properly as a result of misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as fire, flood, and lightning, improper electrical current, software problems, interaction with non-EPSON products, or service other than by an EPSON Authorized Servicer. Postage, insurance, or shipping costs incurred in presenting your EPSON product for carry-in warranty service are your responsibility. If a claimed defect cannot be identified or reproduced in service, you will be held responsible for costs incurred.

THE WARRANTY AND REMEDY PROVIDED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS

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In Canada, warranties include both warranties and conditions.

Some jurisdictions do not allow limitations on how long an implied warranty lasts and some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction.

To locate an Authorized EPSON Servicer nearest you, call the EPSON Connection at (562) 276-4394 in the U.S. and (905) 709-3839 in Canada or write to: Epson America, Inc., P. O. Box 93012, MS: 6-33, Long Beach, CA 90809-3012.

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